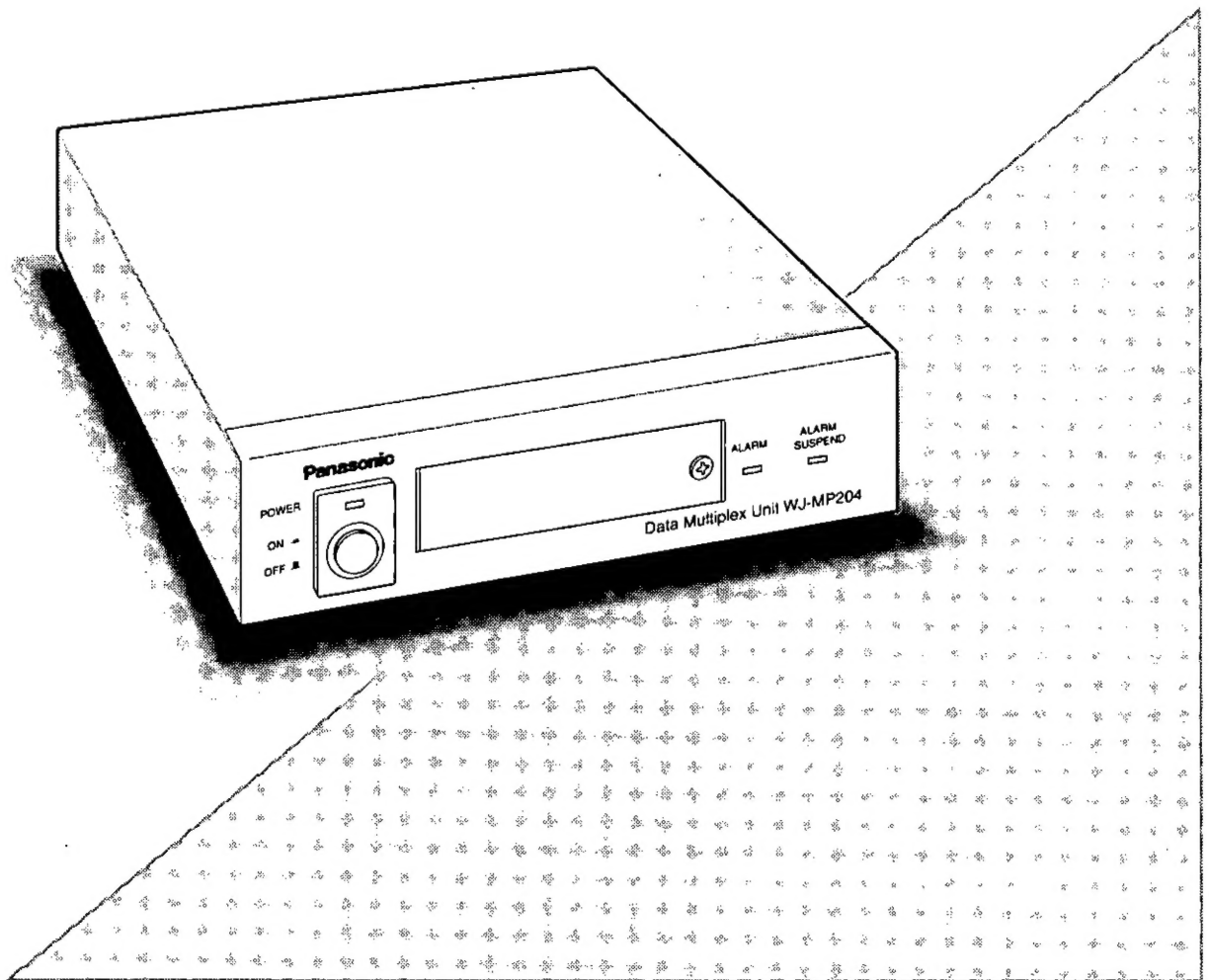


Panasonic

Data Multiplex Unit Operating Instructions

Model No. **WJ-MP204**



Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

Caution:

Before attempting to connect or operate this product, please read the label on the bottom.



SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

WARNING:

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

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PREFACE

The WJ-MP204 Data Multiplex Unit enables you to remote control multiple surveillance cameras, check alarm settings, operate the cameras and control other system components when combined with the WJ-FS309 (WJ-FS316) Video Multiplexer and the WV-CU360 System Controller with Panasonic Security Data **PS•Data** mode capability.

Using up to four Data Multiplex Units in daisy-chain connection allows expansion of the system to include up to 16 cameras. The distance between the system and the cameras can be extended by connecting an AV Codec or similar device. The WJ-MP204 and other devices compatible with Panasonic Security Data mode have the logo **PS•Data**.

FEATURES

The WJ-MP204 offers the following functions:

- Panasonic Security Data mode (with WV-CU360 connected)
- Camera Communication mode (with WJ-SX350 connected via RS485)
- Camera channel selection
- Alarm resetting and suspension
- Communication and system setup

Remote control of the cameras using the WV-CU360 System Controller with Panasonic Security Data mode capability, including:

- Camera settings
- Pan/Tilt Head and Camera Housing (Wiper, Defroster, etc.)
- Motorized Zoom Lens (Focus, Zoom, Iris, etc.)
- WJ-FS309 (WJ-FS316) Video Multiplexer
- Camera setup

Camera Spot function

Allows you to display on the monitor any camera image selected on the WJ-MP204 Data Multiplex Unit or the WV-CU360 System Controller.

Alarm function

Performs the following operations in response to alarm input to the WJ-MP204 Data Multiplex Unit:

- Activates the camera preset function and displays the image of the camera at the preset position on the monitor.
- Outputs an alarm signal to notice from the Alarm/Remote connector to external devices.
- Accepts alarm input multiplexed with video signal from the camera.

COMMUNICATION MODE

The WJ-MP204 Data Multiplex Unit can communicate with the WV-CU360 System Controller or the WJ-FS309 (WJ-FS316) Video Multiplexer in Panasonic Security Data mode or Camera Communication mode. Both modes require different settings.

Panasonic Security Data mode

This mode lets you

- Operate multiple cameras and devices via one WV-CU360 System Controller.
- Connect up to 16 Data Multiplex Units for Panasonic Security Data mode communication (up to 4 in case of the WJ-MP204).
- Set a unit number for each Data Multiplex Unit.
- Synchronize each channel by multiplexing the video signal with the sync signal VD2.
- Enable cable loss compensation.
- For Panasonic Security Data communication mode refer to the following pages:

Setup Procedure	8
Setting Communication Mode	9
Setting Addresses	10
Setup Menu	11
Displaying the Setup Menu	12
Communication Setup	12, 13
System Setup	13, 14, 15
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Camera Communication mode

This mode lets you

- Extend the distance between the cameras and the WJ-MP204 Data Multiplex Unit by RS485 cables.
- Control multiple cameras installed at a distance of up to 1,200 m (4,000 ft) from the Data Multiplex Unit by connecting an AV codec.
- Set or change camera address from the Setup menu of the Data Multiplex Unit.
- Synchronize each channel by multiplexing the video signal with the sync signal VD2.
- Enable cable loss compensation.
- For Camera Communication mode refer to the following pages:

Setup Procedure	8
Setting Communication Mode	9
Setting Addresses	10
Setup Menu	11
Displaying the Setup Menu	16
Communication Setup	16, 17
System Setup	18, 19
Connecting Two or More Data Multiplex Units to Matrix Switcher WJ-SX350	24

PRECAUTIONS

- **Refer all work related to the installation of this product to qualified service personnel or system installers.**

- **Do not block the ventilation opening or slots on the cover.**

To prevent the appliance temperature from rising, place the appliance at least 5 cm (2 inches) away from the wall.

- **Do not drop metallic parts through slots.**

This could permanently damage the appliance. Turn the power off immediately and refer servicing to qualified service personnel.

- **Do not attempt to disassemble the appliance.**

To prevent electric shock, do not remove screws or covers.

There are no user-serviceable parts inside. Refer maintenance to qualified service personnel.

- **Handle the appliance with care.**

Do not strike or shake, as this may damage the appliance.

- **Do not expose the appliance to water or moisture, nor try to operate it in wet areas.**

Do take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the appliance and also cause electric shock.

- **Do not use strong or abrasive detergents when cleaning the appliance body.**

Use a dry cloth to clean the appliance when it is dirty. When the dirt is hard to remove, use a mild detergent and wipe gently.

- **Do not operate the appliance beyond its specified temperature, humidity or power source ratings.**

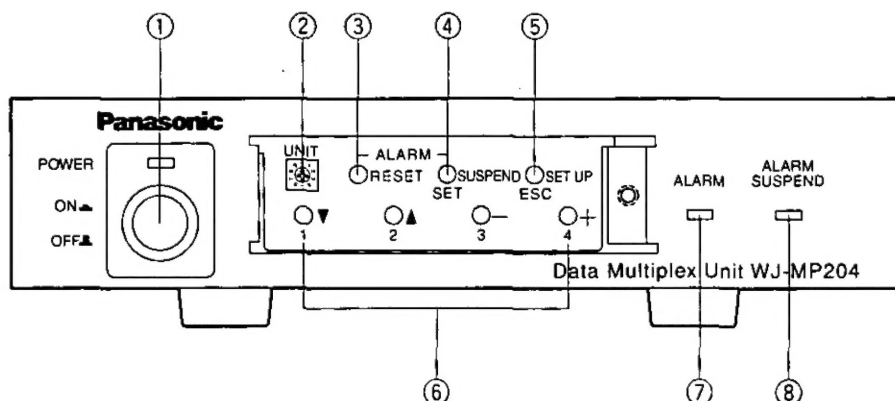
Do not use the appliance in an extreme environment where high temperature or high humidity exists.

Use the appliance at temperatures within -10°C - +50°C (14°F - 122°F) and a humidity below 90 %.

The input power source for this appliance is 120 V AC 60 Hz.

MAJOR OPERATING CONTOROLS AND THEIR FUNCTIONS

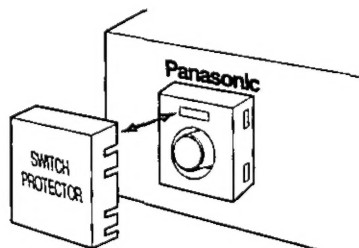
■ Front View



① Power Switch (POWER ON/OFF)

Press once to turn on the Data Multiplex Unit. The switch remains down (▲) and the LED lights up. Press again to turn off the unit. The switch comes up (▼).

Note: To prevent that the power of the Data Multiplex Unit is turned off accidentally, install the supplied switch protector.



② Unit Switch (0 - 8)(UNIT)

Sets the addresses given below. Turn the switch to align the desired number with the arrow.

- Data Multiplex Unit address
- Camera addresses (for CAMERA IN 1 - 4)

Note: Keep the Power switch in the OFF position while setting addresses.

③ Alarm Reset Button (ALARM RESET)

This button resets the Active Alarm Mode. Pressing this button goes off the Alarm indicator and replaces the "Alarm" indication on the monitor screen.

④ Alarm Suspend/Set Button (ALARM SUSPEND/SET)

- Pressing this button will suspend alarm input, alarm input will be ignored. Pressing it again will reset the function.
- In the Setup menu, opens submenus for more detailed settings. Menu items having a submenu are identified by a return symbol at the end of the line.

⑤ Setup/ESC Button (SETUP/ESC)

Pressing this button for 2 seconds or more opens the Setup menu of the Data Multiplex Unit. If pressed for less than 1 second, it functions as the Escape button and returns you to the previous menu.

To close the Setup menu when the setup is completed, press the button for 2 seconds or more.

Note: Make sure to distinguish between 1-second and 2-second operation of this button.

⑥ Camera Selection Buttons

Select the camera for display of live picture. When the Setup menu is displayed on the monitor, these buttons function as follows.

Cursor button (▼): Moves the cursor down.

Cursor button (▲): Moves the cursor up.

Decrement button (-): Selects modes and parameters in the Setup menu. When setting a numerical value such as the camera number or address, pressing this button will decrement the value.

Increment button (+): Selects modes and parameters in the Setup menu. When setting a numerical value such as the Camera number or address, pressing this button will increment the value.

⑦ Alarm Indicator (ALARM)

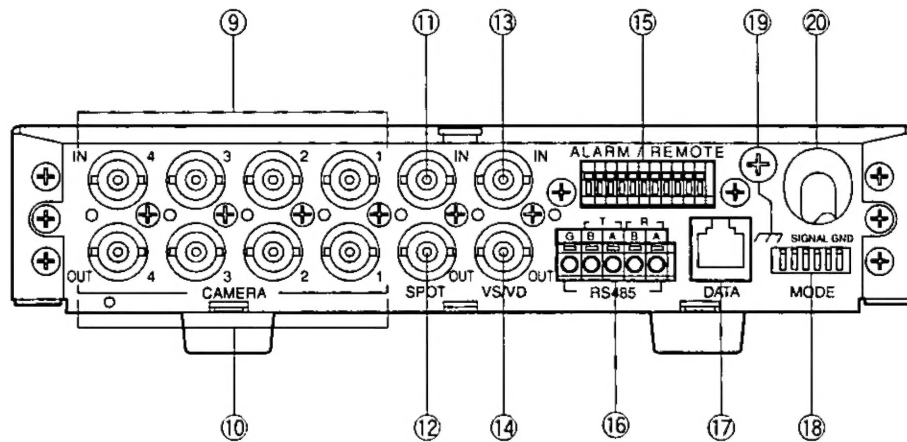
This indicator blinks when the alarm is activated. It changes to steady light when the alarm is automatically reset.

⑧ Alarm Suspend Indicator (ALARM SUSPEND)

This indicator lights up while the alarm is suspended. It goes off when the function is reset.

Note: To use the switch ② and the buttons in ③, ④, ⑤ and ⑥ above, remove the front cover by loosening the screw with a screwdriver. For further information, see page 28.

■ Rear View



⑨ Camera Input Connectors 1-4 (CAMERA IN 1, 2, 3, 4)

These connectors accept composite video signal from the camera.

⑩ Camera Output Connectors 1-4 (CAMERA OUT 1, 2, 3, 4)

The video signal connected to the Camera Input Connector (CAMERA IN 1, 2, 3, 4) is looped through to these connectors.

⑪ Video Input Connector (SPOT IN)

Used when multiple Data Multiplex Units are connected.

Note: To connect multiplex Data Multiplex Units, set DAISY MODE in the System menu to ON.

⑫ Video Output Connector (SPOT OUT)

This connector supplies the video output signal for the spot monitor. It is also used when connecting multiple Data Multiplex Units.

⑬ VS/VD Input Connector (VS/VD IN)

Accepts the video sync signal (VS), or a vertical drive signal (VD) supplied by external devices to synchronize the Data Multiplex Unit with other devices.

Notes:

- Connect a device supplying an external sync signal that complies with the EIA RS-170 standard. Do not input signals having a high jitter content such as VCR playback signals.
- To input a vertical drive signal, set VS/VD INPUT in the System menu to VD.

⑭ VS/VD Output Connector (VS/VD OUT)

This connector is used to supply the sync signal input to the VS/VD IN connector, or the internally generated sync signal VD, to other devices.

Note:

- Set MODE Switch (1) to OFF (THROUGH) in supplying the signals input to the VS/VD IN connector

to other devices.

- Set MODE Switch (1) to ON (VD) in supplying the internally generated reference sync signal VD to other devices.

⑮ Alarm/Remote Connector (ALARM/REMOTE)

The factory default setting is ALARM input. For remote input, set TERMINAL in the System menu to REMOTE.

Can also be used as ALARM/REMOTE output terminal by moving an internal connector. Refer to page 25 for details.

⑯ RS-485 Terminal (RS-485)

When the Data Multiplex Unit is connected to the Matrix Switcher WJ-SX350, this terminal is used to exchange control data with the camera site via Camera Communication mode.

⑰ Data Port (DATA)

This port is used to exchange control data with the WV-CU360 System Controller in Panasonic Security Data mode. It is also used to connect the WJ-FS309 (or WJ-FS316) Video Multiplexer.

Note: Cannot use both RS-485 Terminal and Data port at the same time. It can be distributed corresponding to the communication mode as follows:

Camera Communication Mode: Use only the RS-485 terminal.

Panasonic Security Data mode: Use only the Data port.

⑱ Dip Switches (MODE)

These switches are used to select the mode.

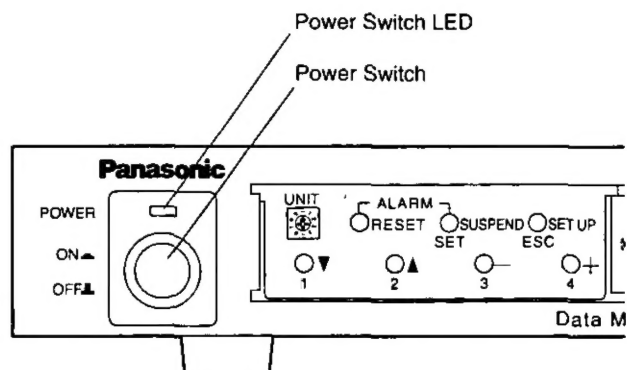
⑲ Signal Ground Terminal (SIGNAL GND)

⑳ Power Cord

SETUP PROCEDURE

Follow the procedures below for setup.

1. Press the Power Switch back to the OFF position.
Check that the Power Switch LED is off.



2. Set the MODE Switches as follows:
Select an operation mode using the MODE Switches on the rear panel. See page 9 for details.
 - Communication mode
This mode must be selected whenever this data multiplexer unit is used.
 - Set the following in communication using the DATA Port or RS485 terminal. Termination ON or OFF, full duplex or half duplex.
 - Set the type of sync signal to be output from the Data Multiplex Unit.
Set it in supplying the sync signal from the VSND OUT connector to other devices.
3. Set the UNIT Switch.
Set address (unit address, or camera addresses) using the UNIT Switch on the front panel. The addresses to be set vary depending on the communication mode set. See page 10 for details.
4. Press the Power Switch down to the ON position.
Check that the Power Switch LED lights up.
5. Set parameters on the Setup menu.
Set parameters on the Setup menu as required to use the Data Multiplex Unit. The contents of the Setup menu vary depending on the communication mode used. See page 11 for details.

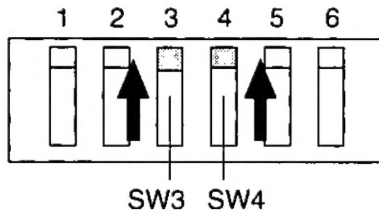
DIP SWITCH SETTING

Before connecting the Data Multiplex Unit, check how the DIP switches are set on the rear panel in cases where the system setup must be changed.

■ Setting Communication Mode

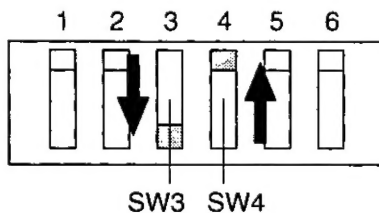
● Panasonic Security Data Mode

Check that DIP Switches SW3 and SW4 are up.



● Camera Communication Mode

Check that DIP Switch SW3 is down and DIP Switch SW4 up.

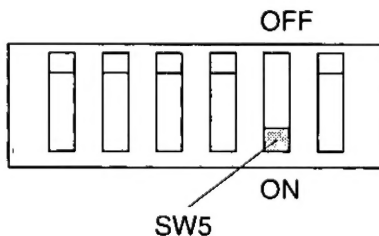


■ Setting the Communication Mode via RS-485 or Data Port

● Termination

Check that DIP Switch SW5 is down (ON).

Note: In case of using two Data Multiplex Units or more, set DIP Switch SW5 on only one point at the end position of the unit to the down position.



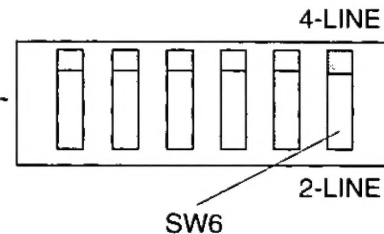
● Data Line Selection Mode

Set DIP Switch SW6 to the 4-LINE or 2-LINE position according to the desired data line selection mode.

4-LINE: Full Duplex

2-LINE: Half Duplex

The initial factory setting is 4-LINE.

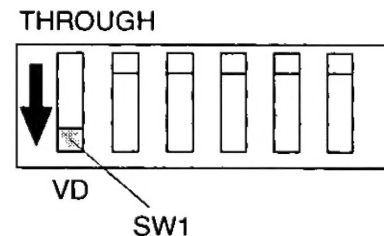


Note: Set SW6 to 4-LINE for communication in Panasonic Security Data mode.

■ Setting VS or VD Signal Output

● Supplying Video Drive Signal in Internal Sync Mode*

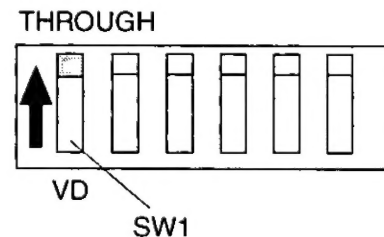
Check that DIP Switch SW1 is down (VD).



* Synchronized vertical drive signal is supplied in case of signal input to VS/VD IN connector.

● Supplying Synchronized Signal Input to VS/VD IN Connector

Check that DIP Switch SW1 is up (THROUGH).



SETTING ADDRESSES

Address setting varies from one communication mode to another.

■ Panasonic Security Data Mode

Set each number as follows.

	UNIT Switch Settings of WJ-MP204									
	0	1	2	3	4	5	6	7	8	9
Unit address of WJ-MP204	Set the number in Setup menu	1	2	3	4	5	6	7	8	Prohibition of a Setup (reserved number)

Note:

- Do not set the UNIT switch to position 9 because it is a reserved number.
- When two Units corresponding to Panasonic Security Data or more are connected, check that each UNIT switch is set to a number different from those of the others.
- In changing unit addresses using the setup menu, set the UNIT switch to position 0.
- Keep the power switch in the OFF position while setting unit numbers. Addresses cannot be set if power is on.

■ Camera Communication Mode

Set camera address as follows.

		UNIT Switch Settings of WJ-MP204									
		0	1	2	3	4	5	6	7	8	9
CAMERA IN/OUT Connector	1	Set the number in Setup menu	1	5	9	13	17	21	25	29	Prohibition of a Setup (reserved number)
	2		2	6	10	14	18	22	26	30	
	3		3	7	11	15	19	23	27	31	
	4		4	8	12	16	20	24	28	32	

Note:

- Do not set the UNIT switch to position 9 because it is a reserved number.
- When two Units or more are connected, check that each UNIT switch is set to a number different from those of the others.
- In changing camera addresses using the setup menu, set the UNIT switch to position 0.
- Keep the power switch in the OFF position while setting unit numbers. Addresses cannot be set if power is on.

● Setting Unit Addresses

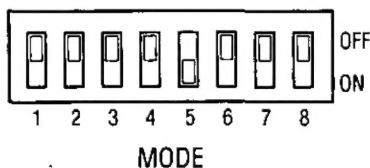
Turn the UNIT switch till the arrow points the desired number.



The setting should be made by qualified service personnel or system installers.

● Setting the System Controller WV-CU360

Only the figure below is shown for this setting. For details, refer to the Operating Instructions for the System Controller.



SETUP MENU

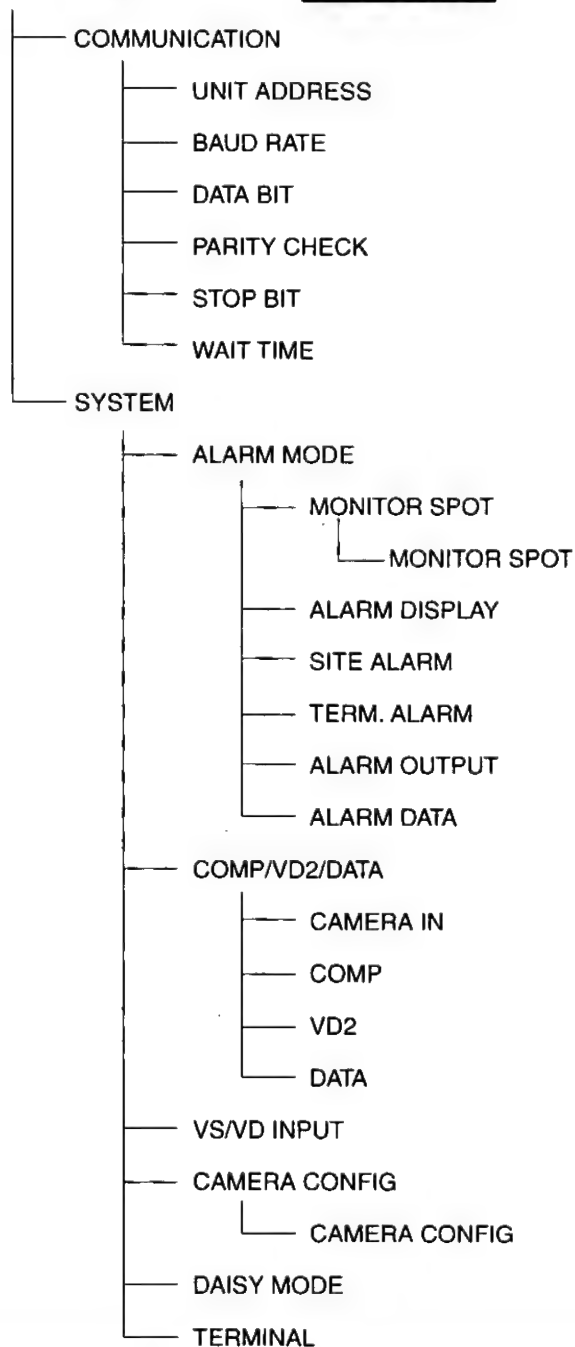
The Setup menu consists of two main menus: one for communication setup for connection to cameras and the system controller WV-CU360, and the other for system setup of the Data Multiplex Unit.

Each of the main menus consists of submenus.

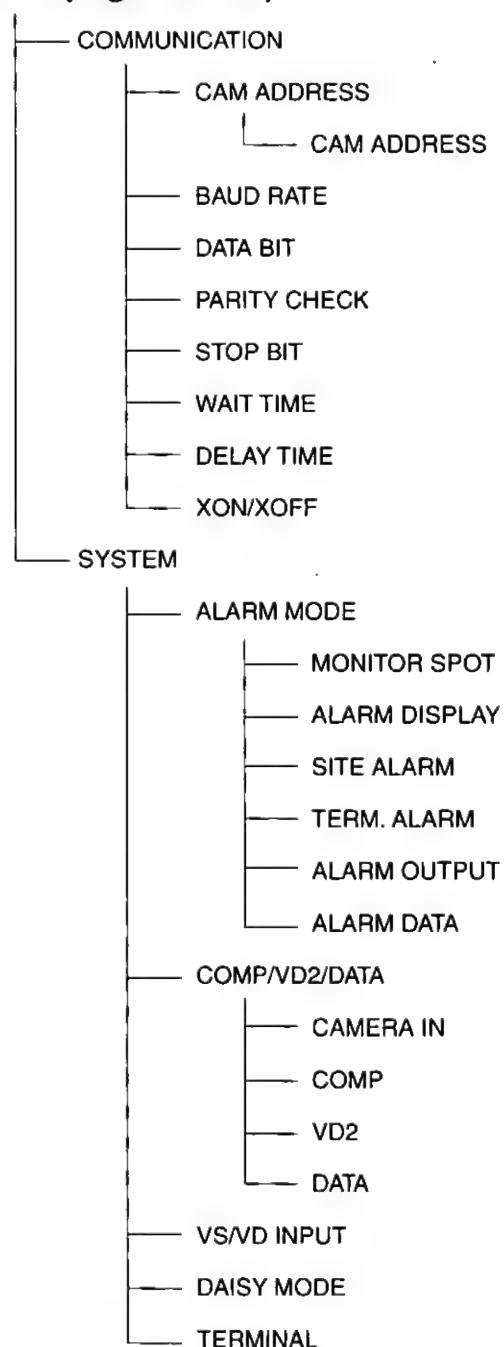
The Setup menu varies between Panasonic Security Data mode and Camera Communication mode. Refer to the description of communication mode setting with the DIP switches on page 9.

■ Setup Menu

● Panasonic Security Data mode (see page 12 - 15) **PS-Data**

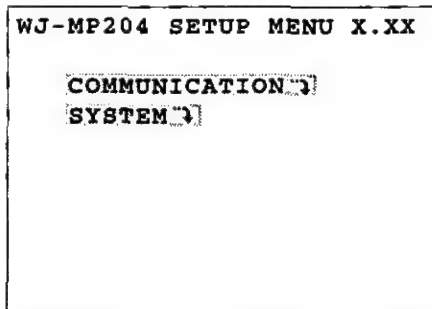


● Camera Communication mode (see page 16 - 19)

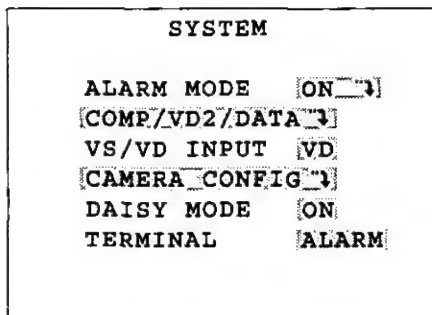
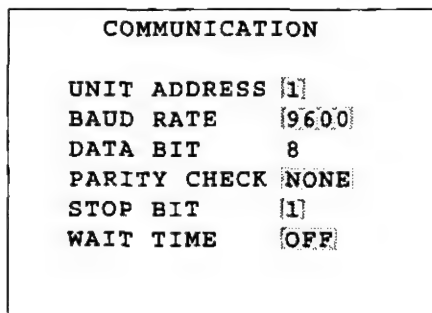


■ Displaying the Setup Menu for Panasonic Security Data Mode

1. Check that the cameras and peripherals are connected correctly and securely.
2. Switch all the system components on.
3. Press the SETUP/ESC button for 2 seconds or more.
The Setup menu appears on the monitor.



4. Move the cursor up or down pressing button 1 (▼) or button 2 (▲).
5. Press the SUSPEND/SET button. The COMMUNICATION menu or the SYSTEM menu appears on the monitor as shown below.



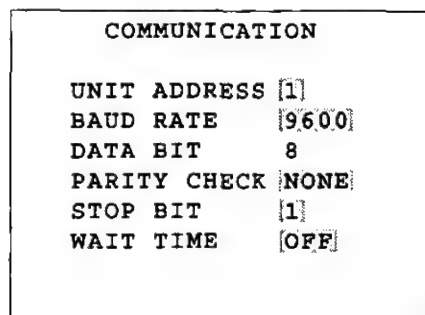
- The following buttons are used with the Setup menu.
 - 1 (▼): To move the cursor down
 - 2 (▲): To move the cursor up
 - 3 (-): To select a mode or parameter
 - 4 (+): To select a mode or parameter
 - SUSPEND/SET:** To enter the selections and display the submenu for the item indicated by the mark "▶"
 - SETUP/ESC:** To return to the previous menu

Note:

- To not display the Setup menu for CAMERA OUT pictures, shift the internal switch.(See page 26.)
- To finalize the settings, press the SETUP/ESC button for 2 seconds or more while the Setup menu is displayed.
- To use the System Controller WV-CU360 for operation, refer to its Operating Instructions.

■ Communication Setup of Panasonic Security Data Mode

1. Display the Setup menu.
2. Move the cursor to COMMUNICATION by pressing button 1 (▼) or button 2 (▲).
Then press the SUSPEND/SET button.
- In case of Panasonic Security Data mode, the COMMUNICATION menu appears as shown below.



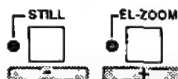
3. Move the cursor to the desired item by pressing button 1 (▼) or button 2 (▲), then select the desired mode by pressing button 3 (-) or button 4 (+).
4. Press the SUSPEND/SET button.
5. After taking the above steps, press the SETUP/ESC button for 2 seconds or more.

Note: All the settings must be compatible with the peripherals connected.

- The following buttons are used with the Setup menu for the WV-CU360. (For Panasonic Security Data mode only)



: To move the cursor up and down



: To select a mode or parameter



: To enter the selections and display the submenu



: To return to the previous menu

(1) Unit Number Setting

1. Display the COMMUNICATION menu.
2. Move the cursor to UNIT ADDRESS by pressing button 1 (▼) or button 2 (▲), then select the desired unit number in the range of 1 to 99 by pressing button 3 (–) or button 4 (+).

Note:

- Check before the above setting that the UNIT switch is at 0. For address setting, see page 10.
- Before switching the Data Multiplex Unit back on, remember that address setting with the UNIT switch has priority to the above setting.

COMMUNICATION	
UNIT ADDRESS	[1]
BAUD RATE	[9600]
DATA BIT	8
PARITY CHECK	NONE
STOP BIT	[1]
WAIT TIME	[OFF]

(2) Baud Rate Setting

1. Display the COMMUNICATION menu.
2. Move the cursor to BAUD RATE by pressing button 1 (▼) or button 2 (▲), then select the desired baud rate (19200, 9600, 4800, or 2400 bps) by pressing button 3 (–) or button 4 (+).

The initial factory setting is 9600bps.

(3) Data Bit Setting

Setting is fixed for 8 bit.

(4) Parity Check Setting

1. Display the COMMUNICATION menu.
2. Move the cursor to PARITY CHECK by pressing button 1 (▼) or button 2 (▲), then select the desired type of parity check (NONE, EVEN or ODD) by pressing button 3 (–) or button 4 (+).

The initial factory setting is NONE.

(5) Stop Bit Setting

1. Display the COMMUNICATION menu.
2. Move the cursor to STOP BIT by pressing button 1 (▼) or button 2 (▲), then select the desired number of stop bits, 1 or 2 by pressing button 3 (–) or button 4 (+).

The initial factory setting is 1 bit.

(6) Wait Time Setting

1. Display the COMMUNICATION menu.

2. Move the cursor to WAIT TIME by pressing button 1 (▼) or button 2 (▲), then select the desired wait time (OFF, 100, 200, 400, or 1000 ms) by pressing button 3 (–) or button 4 (+).

The initial factory setting is OFF (No retry).

■ System Setup for Panasonic Security Data Mode

1. Display the Setup menu.
2. Move the cursor to SYSTEM by pressing button 1 (▼) or button 2 (▲), then press the SUSPEND/SET button.
 - In case of Panasonic Security Data mode, the SYSTEM menu appears as shown below.

SYSTEM	
ALARM MODE	[ON]
[COMP/VD2/DATA]	[1]
VS/VD INPUT	[VD]
[CAMERA CONFIG]	[1]
DAISY MODE	[ON]
TERMINAL	[ALARM]

3. Move the cursor to the desired item by pressing button 1 (▼) or button 2 (▲), then then select the desired mode by pressing button 3 (–) or button 4 (+).
4. Press the SUSPEND/SET button.
5. After taking the above steps, press the SETUP/ESC button for 2 seconds or more.

Note: All the settings must be compatible with the peripherals connected.

(1) Alarm Mode Setting

• Monitor Spot Setting

ALARM MODE		
MONITOR SPOT	ON	↕
ALARM DISPLAY	ON	
SITE ALARM	ON	
TERM. ALARM	ON	
ALARM OUTPUT	10S	
ALARM DATA	1S	

1. Display the SYSTEM menu.
2. Move the cursor to ALARM MODE by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select MONITOR SPOT ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.

ON: The screen of the corresponding channel appears when the alarm is activated. If MONITOR SPOT ON with the mark "↕" is selected, the screen appears as shown below.

MONITOR SPOT		
ALARM	CAM NO.	PRE
1	1CH	☐
2	2CH	☐
3	3CH	☐
4	4CH	☐

Enter each camera number and a preset position for each alarm number. If the Data Multiplex Unit is connected to a combination camera, enter a preset position for the PRE parameter.

OFF: The screen continues to display the pictures in the mode selected previously when the alarm is activated.

For further information on preset positions, refer to the Operating Instructions for the combination camera.

• Alarm Display Setting

1. Display the SYSTEM menu.
2. Move the cursor to ALARM DISPLAY by pressing button 1 (▼) or button 2 (▲), then select ALARM DISPLAY ON or OFF by pressing button 3 (-) or button 4 (+) so that [ALARM**] appears or not in alarm mode.
The initial factory setting is ON.

• Site Alarm Setting

1. Display the SYSTEM menu.

2. Move the cursor to SITE ALARM by pressing button 1 (▼) or button 2 (▲), then select SITE ALARM ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.

• Terminal Alarm Setting

1. Display the SYSTEM menu.
2. Move the cursor to TERM. ALARM by pressing button 1 (▼) or button 2 (▲), then select TERM. ALARM ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.

• Alarm Output Data (Alarm Output Duration from Alarm Connector)

1. Display the SYSTEM menu.
2. Move the cursor to ALARM OUTPUT by pressing button 1 (▼) or button 2 (▲), then select the desired alarm output duration, 1S - 30S, 40S, 50S, 1MIN, 2MIN, 3MIN, 4MIN, 5MIN, EXT or OFF, by pressing button 3 (-) or button 4 (+).
The initial factory setting is 10S. Enable to set by 1 second (1S - 30S).

EXT: The alarm signal continues to be output from ALARM/REMOTE connector till the alarm is reset. The alarm is not automatically reset.

1S-5MIN: The alarm signal is supplied from ALARM/REMOTE connector only for the set time. The alarm is automatically reset after the set time. (The ALARM indicator changes from blink to steady light.)

OFF: The alarm signal is not supplied from ALARM/REMOTE connector. The alarm is not automatically reset.

• Alarm Data

This is to set whether or not the alarm data received from a camera is to be transmitted to the WV-CU360.

OFF: Select this parameter if the system controller is not connected to the system, or if operation is to be controlled via an AV Codec.

0S: Each time an alarm is detected, it is notified to the system controller.

1S: When an alarm is detected, it is notified to the system controller. (Alarm data on each channel where an alarm is detected is stored for 1 second, and the stored alarm data is sent to the system controller.)

5S: When an alarm is detected, it is notified to the system controller. (Alarm data on each channel where an alarm is detected is stored for 5 seconds, and the stored alarm data is sent to the system controller.)

Note: To set 0S, 1S or 5S, the system controller set as controller No. 1 must be connected to the system.

1. Display the SYSTEM menu.
2. Move the cursor to ALARM DATA by pressing button 1 (▼) or button 2 (▲), then select the desired alarm data duration, OFF, 0S, 1S, or 5S, by pressing button 3 (-) or button 4 (+).

(2) Comp/VD2/Data Setting

COMP / VD2 / DATA	
CAMERA IN	1CH
COMP	S
VD2	ON
DATA	ON

• Camera Input Setting

1. Display the SYSTEM menu.
2. Move the cursor to CAMERA IN by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select the desired channel 1, 2, 3 or 4 for background picture by pressing button 3 (-) or button 4 (+).
The initial factory setting is 1CH.

• Cable Compensation Setting

1. Display the SYSTEM menu.
2. Move the cursor to COMP by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select the most suitable cable length by pressing button 3 (-) or button 4 (+).
S: Less than 1,300 ft (400 m)
M: 1,300 ft (400 m) to 2,300 ft (700 m)
L: 2,300 ft (700 m) to 3,000 ft (900 m)
(When using RG-59U, BELDEN 9259 or equivalent cable)
The initial factory setting is S.

• VD2 Setting

1. Display the SYSTEM menu.
2. Move the cursor to VD2 by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select ON, OFF, or THRU by pressing button 3 (-) or button 4 (+).
ON: Multiplex sync signals (VD2) are generated by synchronizing with the signals sent to the VS/VD IN connector. If there is no input signal, the internally generated sync signal (VD2) is multiplexed.
OFF: Sync signal (VD2) is not multiplexed.
THRU: The sync signal (VD2) sent to the CAMERA OUTPUT connector is multiplexed with the video signals. If there is no input signal, the sync signal (VD2) is not multiplexed.
The initial factory setting is ON.

• Data Setting

1. Display the SYSTEM menu.
2. Move the cursor to DATA by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select data communication ON or OFF by pressing but-

ton 3 (-) or button 4 (+).
The initial factory setting is ON.

(3) VS/VD Input

1. Display the SYSTEM menu.
2. Move the cursor to VS/VD INPUT by pressing button 1 (▼) or button 2 (▲), then select VS or VD by pressing button 3 (-) or button 4 (+).
The initial factory setting is VD.

(4) Camera Config

CAMERA CONFIG	
CAMERA IN	CAM NO.
1CH	1CH
2CH	2CH
3CH	3CH
4CH	4CH

1. Display the SYSTEM menu.
2. Move the cursor to CAMERA CONFIG by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then assign unit numbers, 1 to 128 or - (no camera), by pressing button 3 (-) or button 4 (+).
Camera numbers are automatically assigned according to the UNIT switch settings.

(5) Daisy Mode

1. Display the SYSTEM menu.
2. Move the cursor to DAISY MODE by pressing button 1 (▼) or button 2 (▲), then select control mode ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.

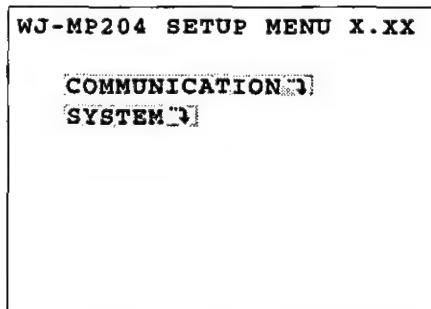
(6) Terminal

1. Display the SYSTEM menu.
2. Move the cursor to TERMINAL by pressing button 1 (▼) or button 2 (▲), then select ALARM or REMOTE by pressing button 3 (-) or button 4 (+).
The initial factory setting is ALARM.

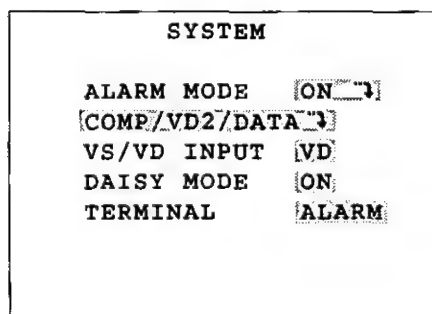
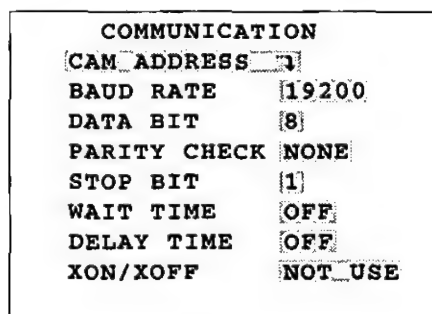
Note: To switch from ALARM/REMOTE IN to ALARM/REMOTE OUT, shift the internal connector of the WJ-MP204 from the ALM IN connector to the ALM OUT connector (See page 25).
The initial factory setting of ALARM/REMOTE connector is ALM IN.

■ Displaying the Setup Menu of Camera Communication Mode

1. Check that the cameras and peripherals are connected correctly and securely.
2. Switch all the system components on.
3. Press the SETUP/ESC button for 2 seconds or more. The Setup menu appears on the monitor.



4. Move the cursor up or down pressing button 1 (▼) or button 2 (▲).
5. Press the SUSPEND/SET button. The COMMUNICATION menu or the SYSTEM menu appears on the monitor as shown below.



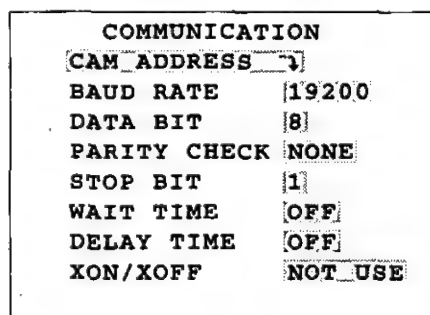
- The following buttons are used with the Setup menu.
 - 1 (▼): To move the cursor down
 - 2 (▲): To move the cursor up
 - 3 (-): To select a mode or parameter
 - 4 (+): To select a mode or parameter
 - SUSPEND/SET: To enter the selections and display the submenu for the item indicated by the mark "→"
 - SETUP/ESC: To return to the previous menu.

Note:

- To not display the Setup menu for camera output pictures, shift the internal switch. (See page 26.)
- To finalize the settings, press the SETUP/ESC button for 2 seconds or more while the Setup menu is displayed.
- To use the System Controller WV-CU360 for operation, refer to its Operating Instructions.

■ Communication Setup for Camera Communication Mode

1. Display the Setup menu.
2. Move the cursor to COMMUNICATION by pressing button 1 (▼) or button 2 (▲). Then press the SUSPEND/SET button.
 - In case of Camera Communication mode, the COMMUNICATION menu appears as shown below.



3. Move the cursor to the desired item by pressing button 1 (▼) or button 2 (▲), then select the desired mode by pressing button 3 (-) or button 4 (+).
4. Press the SUSPEND/SET button.
5. After taking the above steps, press the SETUP/ESC button for 2 seconds or more.

Note: All the settings must be compatible with the peripherals connected.

(1) Camera Addresses Setting

1. Display the COMMUNICATION menu.
2. Move the cursor to CAM ADDRESS by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, and then select the desired camera addresses in the range of 1 to 99 or No Camera by pressing button 3 (–) or button 4 (+).

COMMUNICATION	
CAM ADDRESS	[1]
BAUD RATE	[19200]
DATA BIT	[8]
PARITY CHECK	[NONE]
STOP BIT	[1]
WAIT TIME	[OFF]
DELAY TIME	[OFF]
XON/XOFF	[NOT USE]

CAM ADDRESS	
CAMERA IN	ADDRESS
1CH	[1]
2CH	[2]
3CH	[3]
4CH	[4]

Note:

- Check before the above setting that the UNIT switch is at 0. For address setting, see page 10.
- Before switching the Data Multiple Unit back on, remember that address setting with the UNIT switch has priority to the above setting.

(2) Baud Rate Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to BAUD RATE by pressing button 1 (▼) or button 2 (▲), then select the desired baud rate (19200, 9600, 4800, or 2400 bps) by pressing button 3 (–) or button 4 (+).
- The initial factory setting is 19200bps.

(3) Data Bit Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to DATA BIT by pressing button 1 (▼) or button 2 (▲), then select the desired number of data bits, 7 or 8, by pressing button 3 (–) or button 4 (+).
- The initial factory setting is 8 bit.

(4) Parity Check Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to PARITY CHECK by pressing button 1 (▼) or button 2 (▲), then select the desired type of parity check (NONE, EVEN or ODD) by pressing button 3 (–) or button 4 (+).
- The initial factory setting is NONE.

(5) Stop Bit Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to STOP BIT by pressing button 1 (▼) or button 2 (▲), then select the desired number of stop bits, 1 or 2 by pressing button 3 (–) or button 4 (+).
- The initial factory setting is 1 bit.

(6) Wait Time Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to WAIT TIME by pressing button 1 (▼) or button 2 (▲), then select the desired wait time (OFF, 100, 200, 400, or 1000 ms) by pressing button 3 (–) or button 4 (+).
- The initial factory setting is OFF (No retry).

(7) Delay Time Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to DELAY TIME by pressing button 1 (▼) or button 2 (▲), then select the desired delay time (OFF, 10, 20, 40, or 100 ms) by pressing button 3 (–) or button 4 (+).
- The initial factory setting is OFF.

(8) XON/XOFF Setting

1. Display the COMMUNICATION menu.
 2. Move the cursor to XON/XOFF by pressing button 1 (▼) or button 2 (▲), then select the desired mode, NOT USE or USE, by pressing button 3 (–) or button 4 (+).
- The initial factory setting is NOT USE.

■ System Setup for Camera Communication Mode

1. Display the Setup menu.
2. Move the cursor to SYSTEM by pressing button 1 (▼) or button 2 (▲), then press the SUSPEND/SET button.
 - In case of Camera Communication mode, the SYSTEM menu appears as shown below.

SYSTEM	
ALARM MODE	ON
COMP/VD2/DATA	3
VS/VD INPUT	VD
DAISY MODE	ON
TERMINAL	ALARM

3. Move the cursor to the desired item by pressing button 1 (▼) or button 2 (▲), and then select the desired mode by pressing button 3 (-) or button 4 (+).
4. Press the SUSPEND/SET button.
5. After taking the above steps, press the SETUP/ESC button for 2 seconds or more.

Note: All the settings must be compatible with the peripherals connected.

(1) Alarm Mode Setting

• Monitor Spot Setting

ALARM MODE	
MONITOR SPOT	ON
ALARM DISPLAY	ON
SITE ALARM	ON
TERM. ALARM	ON
ALARM OUTPUT	10S
ALARM DATA	AUTO2

1. Display the SYSTEM menu.
 2. Move the cursor to ALARM MODE by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select MONITOR SPOT ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.
- ON:** The screen of the corresponding channel appears on SPOT OUT screen when the alarm is activated.
- OFF:** The screen continues to display the pictures in the mode selected previously when the alarm is activated.

• Alarm Display Setting

1. Display the SYSTEM menu.
2. Move the cursor to ALARM DISPLAY by pressing button 1 (▼) or button 2 (▲), then select ALARM DISPLAY ON or OFF by pressing button 3 (-) or button 4 (+) so that [ALARM***] appears or not in alarm mode.
The initial factory setting is ON.

• Site Alarm Setting

1. Display the SYSTEM menu.
2. Move the cursor to SITE ALARM by pressing button 1 (▼) or button 2 (▲), then select SITE ALARM ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.

• Terminal Alarm Setting

1. Display the SYSTEM menu.
2. Move the cursor to TERM. ALARM by pressing button 1 (▼) or button 2 (▲), then select TERM. ALARM ON or OFF by pressing button 3 (-) or button 4 (+).
The initial factory setting is ON.

• Alarm Output Data (Alarm Output Duration from Alarm Connector)

1. Display the SYSTEM menu.
2. Move the cursor to ALARM OUTPUT by pressing button 1 (▼) or button 2 (▲), then select the desired alarm output duration, 1S - 30S, 40S, 50S, 1MIN, 2MIN, 3MIN, 4MIN, 5MIN, EXT or OFF, by pressing button 3 (-) or button 4 (+).
The initial factory setting is 10S. Enable to set by 1 second (1S - 30S).

EXT: The alarm signal continues to be output from ALARM/REMOTE connector till the alarm is reset. The alarm is not automatically reset.

1S-5MIN: The alarm signal is supplied from ALARM/REMOTE connector only for the set time. The alarm is automatically reset after the set time. (The ALARM indicator changes from blink to steady light.)

OFF: The alarm signal is not supplied from ALARM/REMOTE connector. The alarm is not automatically reset.

• Alarm Data

This is to set whether or not the alarm data received from a camera is to be transmitted to the WV-CU360.

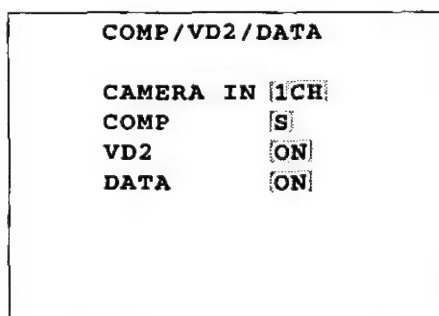
POLLING: Disables to transmit to the system controller even if an alarm is activated.

AUTO1: Enables to transmit to the system controller when an alarm is activated.

AUTO2: Enables to transmit to the system controller when an alarm is activated. Ignores an alarm for 5 seconds after it has transmitted. Enable to transmit an alarm after it has elapsed for 5 seconds.

1. Display the SYSTEM menu.
2. Move the cursor to ALARM DATA by pressing button 1 (▼) or button 2 (▲), then select the desired alarm data mode, POLLING, AUTO 1, or AUTO 2, by pressing button 3 (–) or button 4 (+).
The initial factory setting is AUTO2.

(2) Comp/VD2/Data Setting



• Camera Input Setting

1. Display the SYSTEM menu.
2. Move the cursor to CAMERA IN by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select the desired channel 1, 2, 3 or 4 for background picture by pressing button 3 (–) or button 4 (+).
The initial factory setting is 1CH.

• Cable Compensation Setting

1. Display the SYSTEM menu.
2. Move the cursor to COMP by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select the most suitable cable length by pressing button 3 (–) or button 4 (+).
S: Less than 1,300 ft (400 m)
M: 1,300 ft (400 m) to 2,300 ft (700 m)
L: 2,300 ft (700 m) to 3,000ft (900 m)
 (When using RG-59U, BELDEN 9259 or equivalent cable)
 The initial factory setting is S.

• VD2 Setting

1. Display the SYSTEM menu.
2. Move the cursor to VD2 by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select ON, OFF, or THROUGH by pressing button 3 (–) or button 4 (+).

ON: Multiplex sync signals (VD2) are generated by synchronizing with the signals sent to the VS/VD IN connector. If there is no input signal, the internally generated sync signal (VD2) is multiplexed.

OFF: Sync signal (VD2) is not multiplexed.

THRU: The sync signal (VD2) sent to the CAMERA OUTPUT connector is multiplexed with the video signals. If there is no input signal, the sync signal (VD2) is not multiplexed.

The initial factory setting is ON.

• Data Setting

1. Display the SYSTEM menu.
2. Move the cursor to DATA by pressing button 1 (▼) or button 2 (▲), press the SUSPEND/SET button, then select data communication ON or OFF by pressing button 3 (–) or button 4 (+).
The initial factory setting is ON.

(3) VS/VD Input

1. Display the SYSTEM menu.
2. Move the cursor to VS/VD INPUT by pressing button 1 (▼) or button 2 (▲), then select VS or VD by pressing button 3 (–) or button 4 (+).
The initial factory setting is VD.

(4) Daisy Mode

1. Display the SYSTEM menu.
2. Move the cursor to DAISY MODE by pressing button 1 (▼) or button 2 (▲), then select control mode ON or OFF by pressing button 3 (–) or button 4 (+).
The initial factory setting is ON.

(5) Terminal

1. Display the SYSTEM menu.
2. Move the cursor to TERMINAL by pressing button 1 (▼) or button 2 (▲), then select ALARM or REMOTE by pressing button 3 (–) or button 4 (+).
The initial factory setting is ALARM.

Note: To switch from ALARM/REMOTE IN to ALARM/REMOTE OUT, shift the internal connector of the WJ-MP204 from the ALM IN connector to the ALM OUT connector (See page 25).

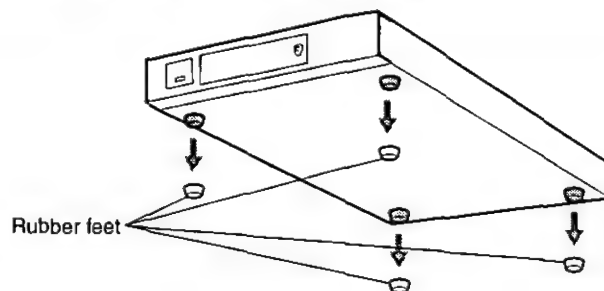
The initial factory setting of ALARM/REMOTE connector is ALM IN.

INSTALLATION

The installation described below should be made by qualified service personnel or system installers.

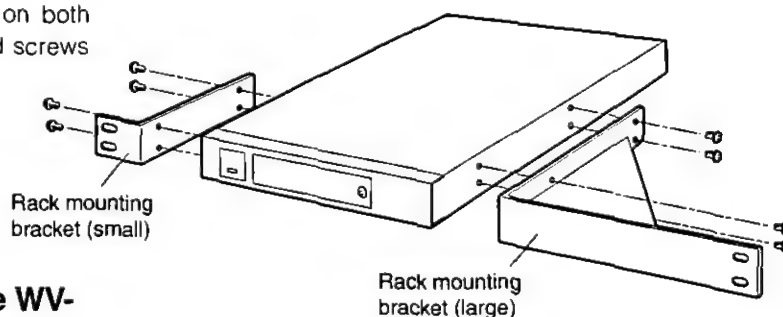
■ Mounting in the Rack

Remove the four rubber feet by removing the four screws from the bottom of the WJ-MP204.



● Mounting One WJ-MP204 with the WV-Q204/1

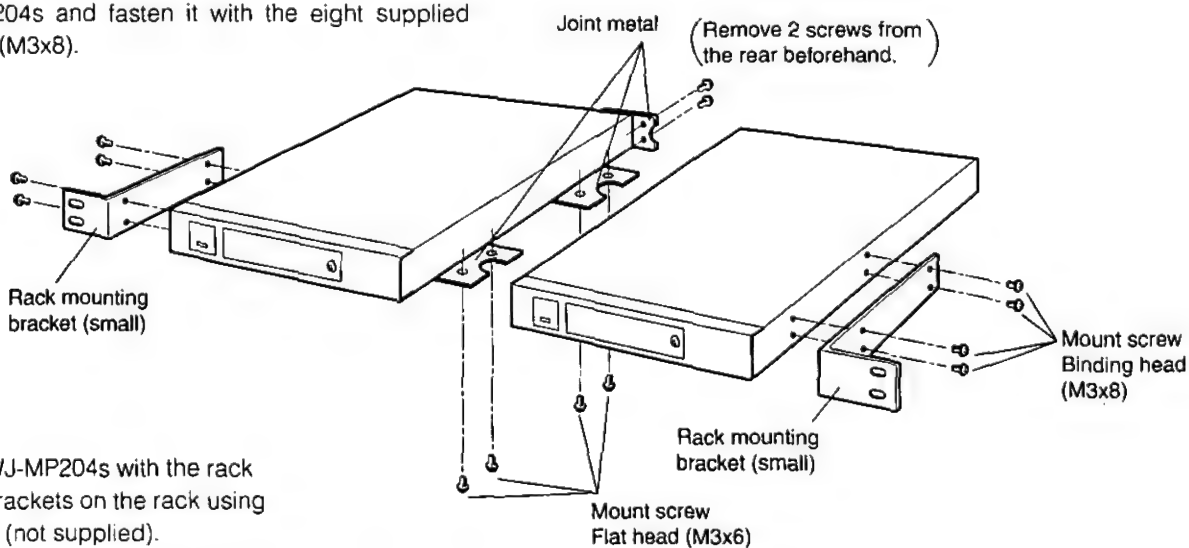
1. Fix the mounting brackets (large and small) on both sides of the WJ-MP204 with the eight supplied screws (M3x8).



● Mounting two WJ-MP204s With the WV-Q204/2

1. Place the joint metals on the WJ-MP204s as shown below and fix them with the supplied screws (M3x6).

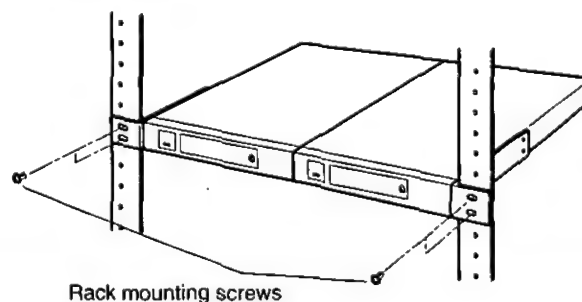
Note: Remove the two screws from the rear of each WJ-MP204s and fasten it with the eight supplied screws (M3x8).



2. Install the WJ-MP204s with the rack mounting brackets on the rack using four screws (not supplied).

Cautions:

- Do not block the ventilation opening or slots in the cover to prevent the appliance from overheating. Always keep temperature in the rack within +45°C (110°F).
- Secure the rear of the appliance to the rack by using additional mounting brackets (procured locally), if the rack is subject to vibration.
- Do not use tapping screws for installing the WJ-MP204 on the rack with the rack mounting brackets.

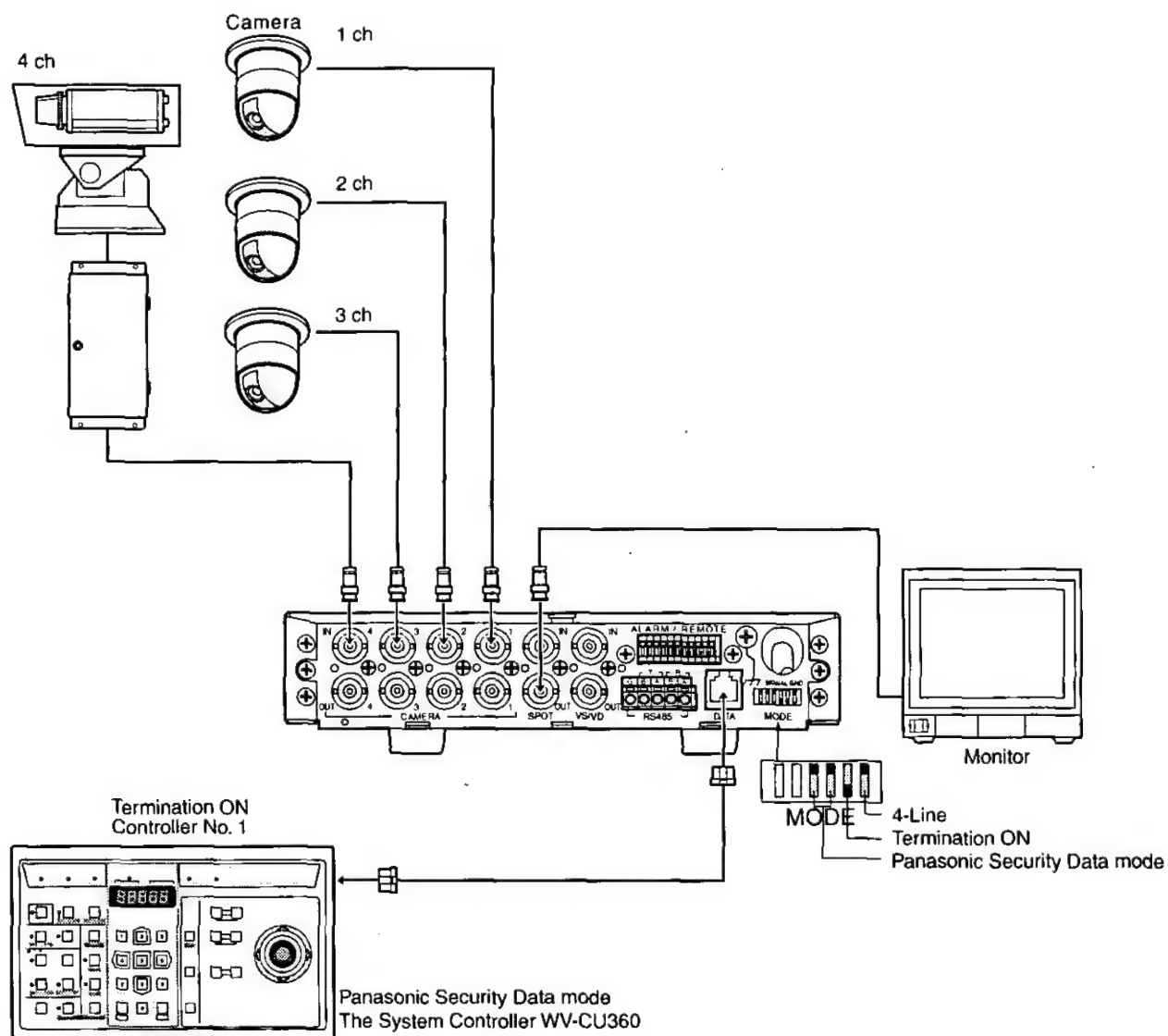


SYSTEM CONNECTION

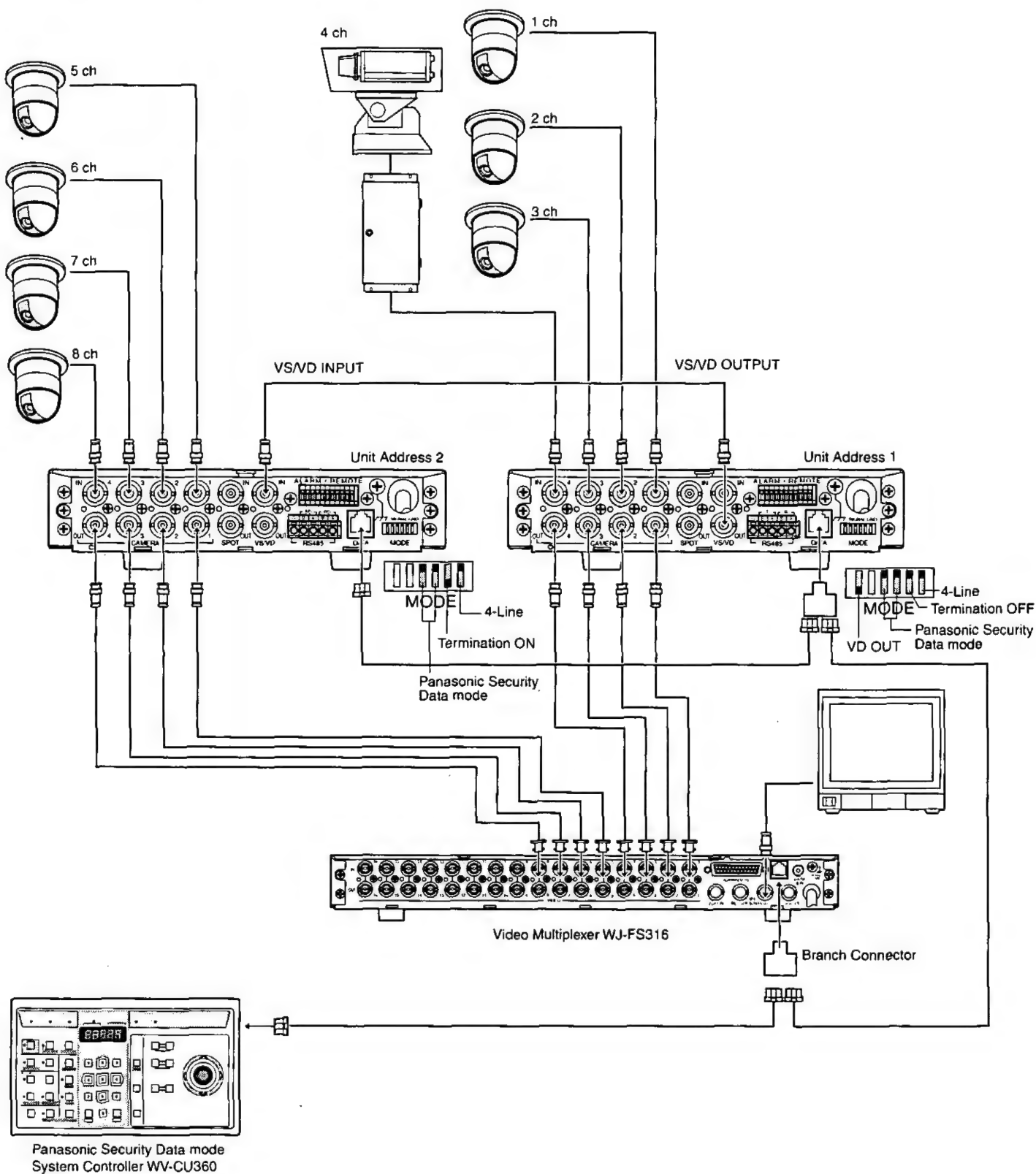
■ BASIC SYSTEM CONNECTION (Panasonic Security Data Mode)

The Data Multiplex Unit WJ-MP204 may be connected to cameras, video monitors, and system controller WV-CU360 as shown in the typical connection example below. The ALARM/REMOTE connector is described later.

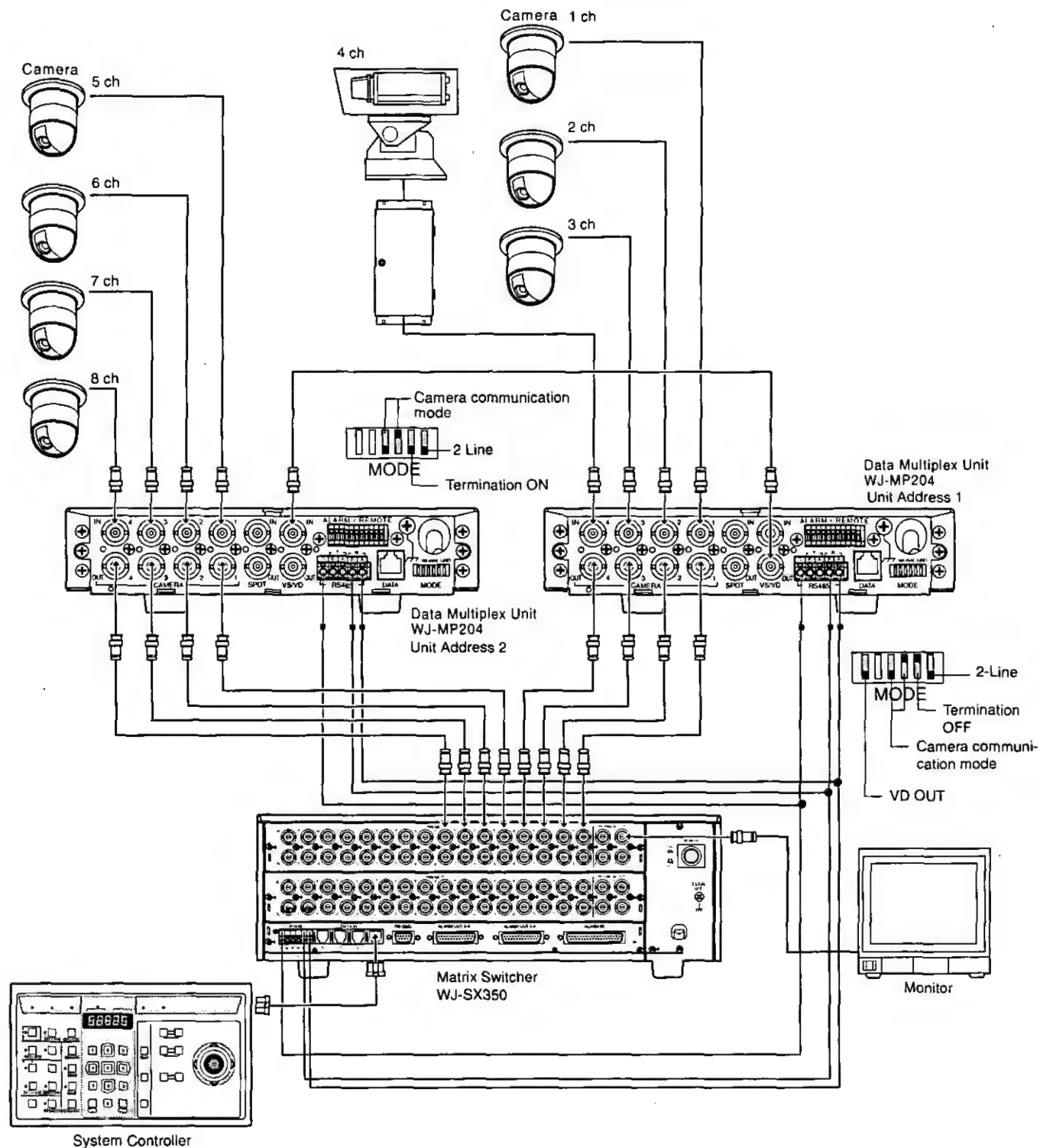
- Refer to the Operating Instructions for each system component for connection and operation.



● Connecting Two or More Data Multiplex Units to Video Multiplexer WJ-FS316 (Panasonic Security Data Mode)



● **Connecting Two or More Data Multiplex Units to Matrix Switcher WJ-SX350 (Camera Communication Mode)**



Notes: It may occur unstable response of the camera in a daisy-chain connection.

■ Alarm/Remote Connector

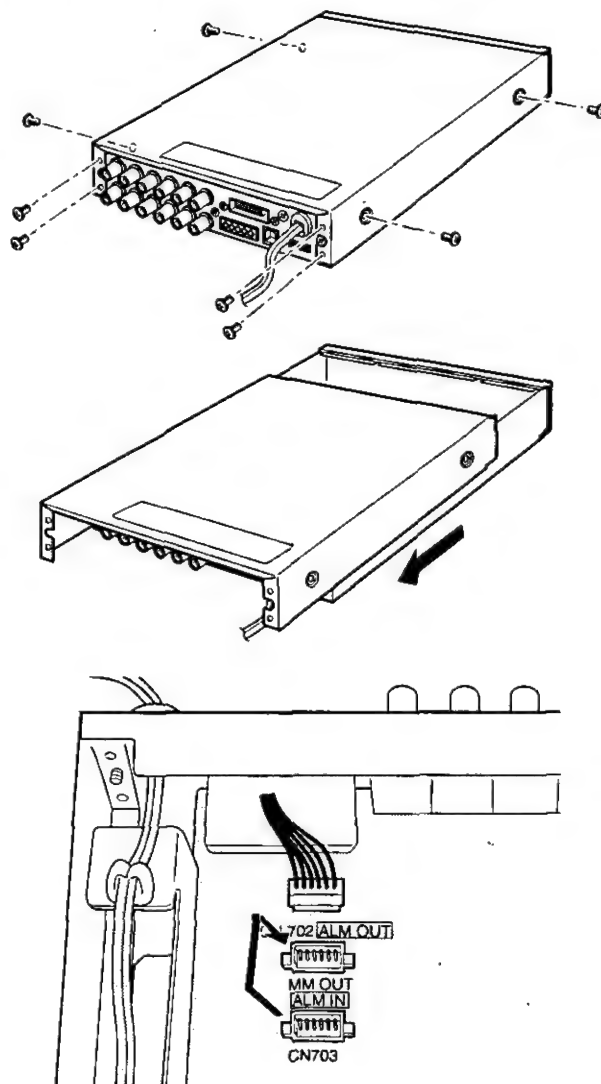
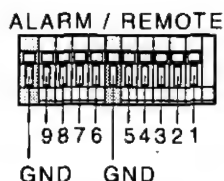
Alarm-related control signals and remote signals are received via this connector. The table below shows pin assignments of the WJ-MP204.

The initial setting is ALARM INPUT.

1. Remove four screws (left x 2, right x 2) on both sides of the WJ-MP204.
2. Remove four screws on the rear panel.
3. Slide the panel cover to the front as viewed from the rear of the WJ-MP204.
4. Remove the connector with cable from CN703 (ALM IN) and attach it to CN702 (ALM OUT).

Notes:

- The ALARM/REMOTE connector can be set to ALARM or REMOTE on the system setup menu.
- Terminals 6 to 9 in the figure below are set to ALARM INPUT (default). To use them as remote input terminals, change the TERMINAL parameter on the System menu to REMOTE.



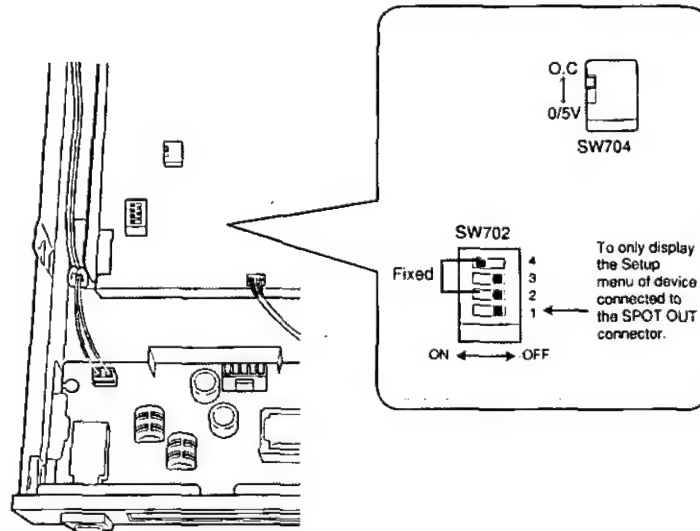
Pin #	For Alarm		For Remote	
	Input	Output	Input	Output
1	Alarm Output			
2	Alarm Recovery Input			
3	Alarm Recovery output			
4	Spot Change Input			
5	Spot Change Output			
6 (1CH)	1 Channel Alarm Input	1 Channel Camera Site Alarm Input → Alarm Output	Change to 1 Channel picture	1 Channel Tally Output
7 (2CH)	2 Channel Alarm Input	2 Channel Camera Site Alarm Input → Alarm Output	Change to 2 Channel picture	2 Channel Tally Output
8 (3CH)	3 Channel Alarm Input	3 Channel Camera Site Alarm Input → Alarm Output	Change to 3 Channel picture	3 Channel Tally Output
9 (4CH)	4 Channel Alarm Input	4 Channel Camera Site Alarm Input → Alarm Output	Change to 4 Channel picture	4 Channel Tally Output

Notes: The initial setting of alarm recovery signal is 0.5 voltage. In case of using Open Collector (O.C.) signal for alarm recovery signal, set the SW704 to O.C.

■ Connector Selection for Setup Menu Output

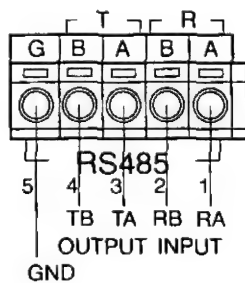
Under the default condition, the setup menu will be output to the devices connected to the SPOT OUT connector and CAMERA OUT connector 1 to 4. When Switch [1] of SW702 in the WJ-MP204 is set to ON, the setup menu will be output only to the devices connected to the SPOT OUT connector. Do not change the positions of Switches 2 to 4 of SW702.

Note: Do not set the Switch [2], [3] and [4] of SW702.

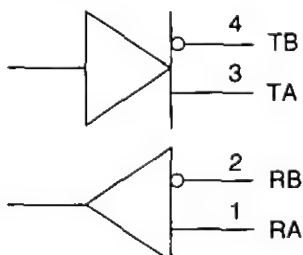


■ RS-485 Terminal

Control data is transmitted and received to and from the Matrix Switcher WJ-SX350. Use a data grade cable, double-shield, twisted pair cable, suited to the RS-485. Cable length may be extended up to 4,000 ft (1,200 m).



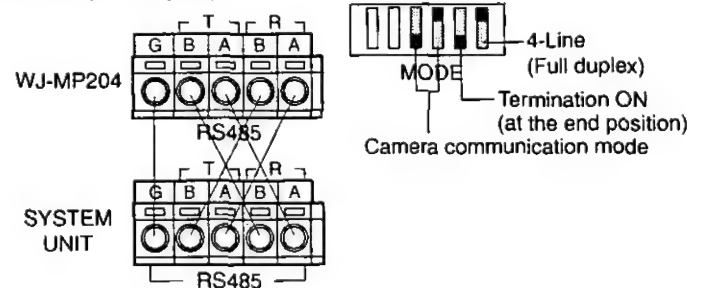
● Internal Diagram



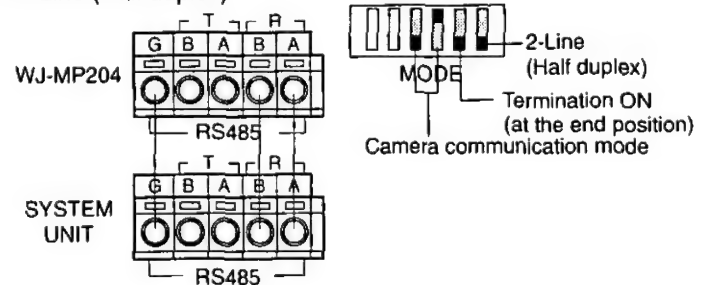
● Connection

Connect one as shown below. Set the DIP switch SW6 to 2-LINE (half duplex) or 4-LINE (full duplex).

• 4-Line (Full duplex)



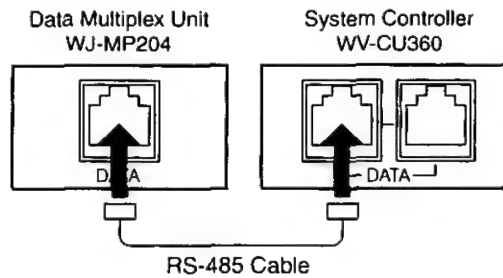
• 2-Line (Half duplex)



■ Connection to WV-CU360

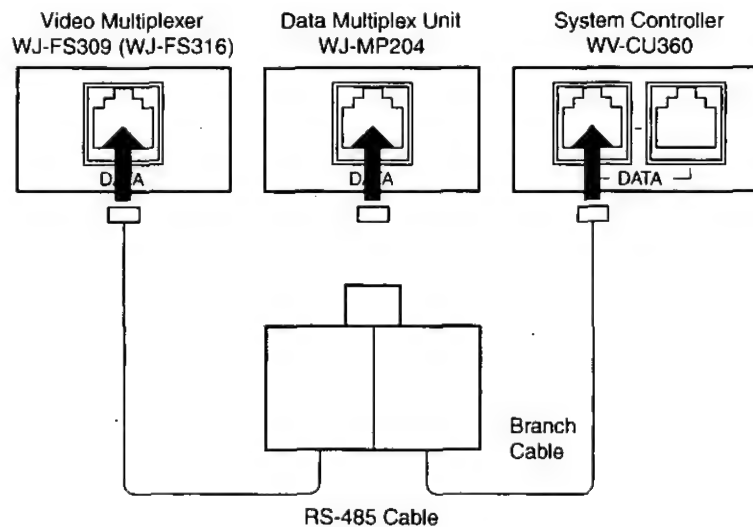
● Basic Connection

Connect the DATA PORT on the Data Multiplex Unit to one of the DATA PORT on the System Controller with the RS-485 cable.



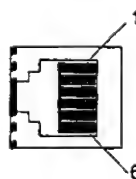
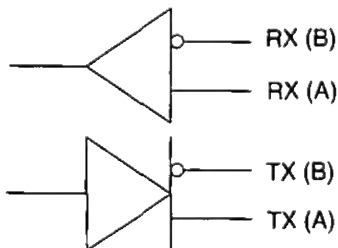
● Loop-Through Connection

1. Plug the branch cable (optional accessory) into the DATA jack on the Video Multiplexer WJ-FS309 (or WJ-FS316).
2. Connect one end of the branch cable from the DATA PORT on the WJ-MP204.
3. Plug the branch cable into the DATA PORT on the WJ-MP204, and connect one of the DATA PORT on the System Controller with the RS-485 cable.



To use cables locally purchased, they must be of the data grade: BELDEN 9406 or equivalent. The pin assignments and data flow are shown below.

• Internal Diagram



No.	Name	Data Flow	No.
1	GND	-	1
2	RX(B)	WJ-MP204 ← WV-CU360	2
3	RX(A)	WJ-MP204 ← WV-CU360	3
4	TX(B)	WJ-MP204 → WV-CU360	4
5	TX(A)	WJ-MP204 → WV-CU360	5
6	GND	-	6

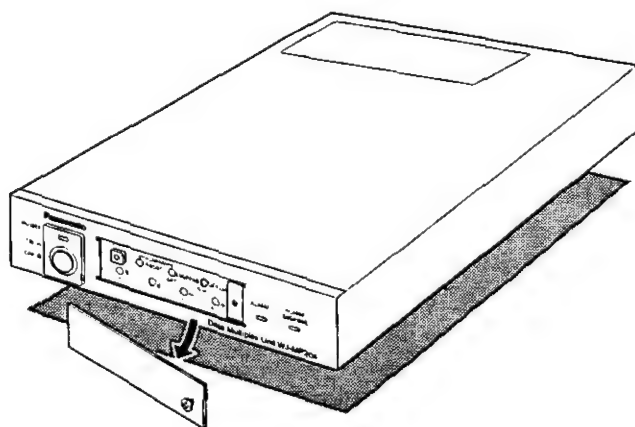
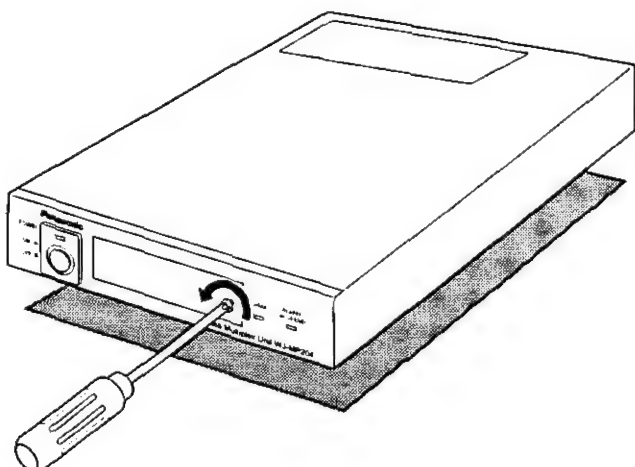
Controller end



OPERATING PROCEDURES

■ Controlling the Camera Functions with the Data Multiplex Unit WJ-MP204

Before starting operation, loosen the screw on the front cover with a screwdriver.



The Data Multiplex Unit WJ-MP204 controls the following.

- Camera selection
- Alarm reset/suspend (See page 29.)
- Setup of the WJ-MP204

■ Controlling the Camera Functions with the System Controller WV-CU360

For details, refer to the Operating Instructions for the System Controller WV-CU360.

The System Controller WV-CU360 controls the following.

- Remote control of camera selection
- Remote control of pan/tilt head and camera housing
- Remote control of camera functions
- Remote control of the Video Multiplexer WJ-FS309 (WJ-FS316)
- Alarm reset/alarm suspend
- Setup of the Data Multiplex Unit WJ-M204 and cameras
- * The functions differ from one type of camera to another.

■ Camera Selection

Select a camera number using the buttons (▼), (▲), (–), (+).



A camera picture is shown.



ALARM CONTROL FUNCTIONS

■ Alarm Input

The Data Multiplex Unit processes the following alarms.
(As to setting, see page 14, 18 and 19.)

- **Camera Site Alarm**
Alarm multiplexed with video signals from the camera.
- **Terminal Alarm**
Alarm received from the ALARM/REMOTE connector.

■ Alarm Operation

ALARM MODE set to ON on the Setup menu (See pages 14 and 18 for details).

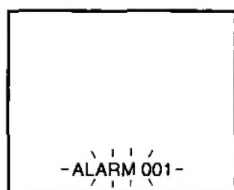
- Alarm indicator blinks
- Alarm data is transmitted to the two or more units connected to the system controller.

MONITOR SPOT set to ON on Setup menu (See pages 14 and 18 for details.)

- Automatic change of camera channel to spot output
 - If a channel develops an alarm, the camera picture on that channel is supplied to the spot output.
 - In Panasonic Security Data mode, preset positions valid in case of an alarm can be set.

ALARM DISPLAY set to ON on the Setup menu (See pages 14 and 18.)

- [ALARM***] appears on the screen. [ALARM***] blinks.



ALARM OUTPUT set to EXT or 1S-5MIN on the Setup menu (See pages 14 and 18.)

- Alarm signal is supplied from the alarm output connector. This permits controlling external devices in case of an alarm.
- Camera site alarm is available to each channel.

Note: [***] means a camera number.

■ Alarm Reset

● Mode After Alarm Reset

- Picture display continues till the reset of the alarm.
- [ALARM***] disappears.
- Alarm signal output stops.
- The alarm indicator stops blinking.
- Recovery signal is supplied from the alarm recovery output.

● Manual Reset

The following are the steps to reset the alarm.

- Press the ALARM RESET button on the System Controller WV-CU360. (in Panasonic Security Data mode only)
- Press the ALARM RESET button on the WJ-MP204.
- Signal is sent to the alarm reset input connector.
- Alarm reset command is sent to the RS-485 terminal (in camera communication mode only).

● Auto Reset

An alarm is automatically reset when the programmed alarm output time is over. The alarm indicator changes from blinking to steady light (See pages 14 and 18).

Note: To go the alarm indicator off, take any one of the steps for manual reset.

■ Alarm Suspend

Alarms will be ignored when the ALARM/SUSPEND button is pressed. The alarm is reset when the ALARM/SUSPEND button is pressed again. The alarm suspend indicator remains lighted during alarm suspend mode.

SPECIFICATIONS

Power Source	: 120 V AC 60 Hz
Power Consumption	: 7 W
Video Input	: 1 V[p-p]/75 Ω x 4
Spot Input	: 1 V[p-p]/75 Ω x 1
VS/VD Input	: VS (1 V[p-p]/75 Ω), VD (4 V[p-p]/75 Ω) x1
Video Output	: 1 V[p-p]/75 Ω (Looped through) x4
Spot Output	: 1 V[p-p]/75 Ω x1 (Changeable Output from video input, or Spot input)
VS/VD Output	: VS/VD IN (Looped through), or internal VD (4 V[p-p]/75 Ω) x 1
Data Communication Standard	: Based on RS485 (4-Line/2-Line*1) Modular Jack x 1, or 5 pins terminal x 1*2
Alarm Input	: 4 (Alarm Output/Remote Input/Remote Output selectable)*3
Alarm Output	: 1 (O.C. [16 V, 100 mA])
Alarm Resume Input	: 1 (No Voltage Contact)
Alarm Resume Output	: 1 (0/5 \leftrightarrow O.C. [16 V, 100 mA])*4
Spot Change Input	: 1 (No Voltage Contact)
Alarm Change Output	: 1 (O.C. [16 V, 100 mA])
Unit address	: 1 - 8 (Setting by Unit Switch) 9-99 (Setting by Setup menu)
Operating for System	: Selection Camera Alarm (Data/Display/Recover/Suspend) Setup Camera, Lens, Housing, PAN/TILT, External device control
Ambient Operating Temperature	: -10°C - +50°C (14°F - 122°F)
Ambient Operating Humidity	: Less than 90 %
Dimensions	: 210 (W) x 44 (H) x 350 (D) mm [8-9/16"(W) x1-3/4"(H) x13 3/4"(D)]
Weight	: 2.6 kg (5.72 lbs.)

*1 Selectable using the mode switch

*2 Valid in communication mode

*3 Selectable using the Setup menu and internal connector

*4 Selectable using an internal switch

Dimensions and weight are approximate.

Specifications are subject to change without notice.

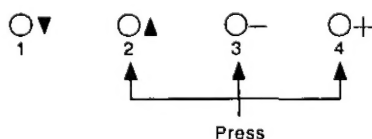
STANDARD ACCESSORIES

Switch Protector 1 pc.

ALL RESET

The Data Multiplex Unit WJ-MP204 can be reset to the default settings as follows:

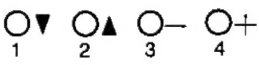









1. Press the power switch to reset it to the OFF position.
2. Press the power switch down to the ON position while pressing the camera selection buttons 2, 3, and 4.
3. Continue to press the camera selection button approximately 3 seconds after press the power switch down to the ON.
4. When all indicators light up, resetting is completed.



APPENDIX

■ Operation of Data Multiplex Unit WJ-MP204 versus Operation of System Controller WV-CU360

The functions that can be controlled from both the WJ-MP204 and WV-CU360 and the differences in the way of their operation are summarized in the table below.

Function	WJ-MP204	WV-CU360
Camera Selection	Press 	Enter camera numbers by pressing numeric buttons. And Press  
Alarm Reset	Press 	Press  
Alarm Suspend	Press 	Press 
Alarm Suspend Reset	Press 	Press 

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